

Department of  
**COMPUTER SCIENCE  
& ENGINEERING**

**COMPSENSE**

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**ST JOSEPH ENGINEERING COLLEGE**

(Affiliated to VTU, Belagavi and recognised by the AICTE, New Delhi. B.E. - CSE, ECE, EEE, ME Accredited by NBA, New Delhi)

VAMANJOOR, MANGALURU - 575 028, KARNATAKA, INDIA



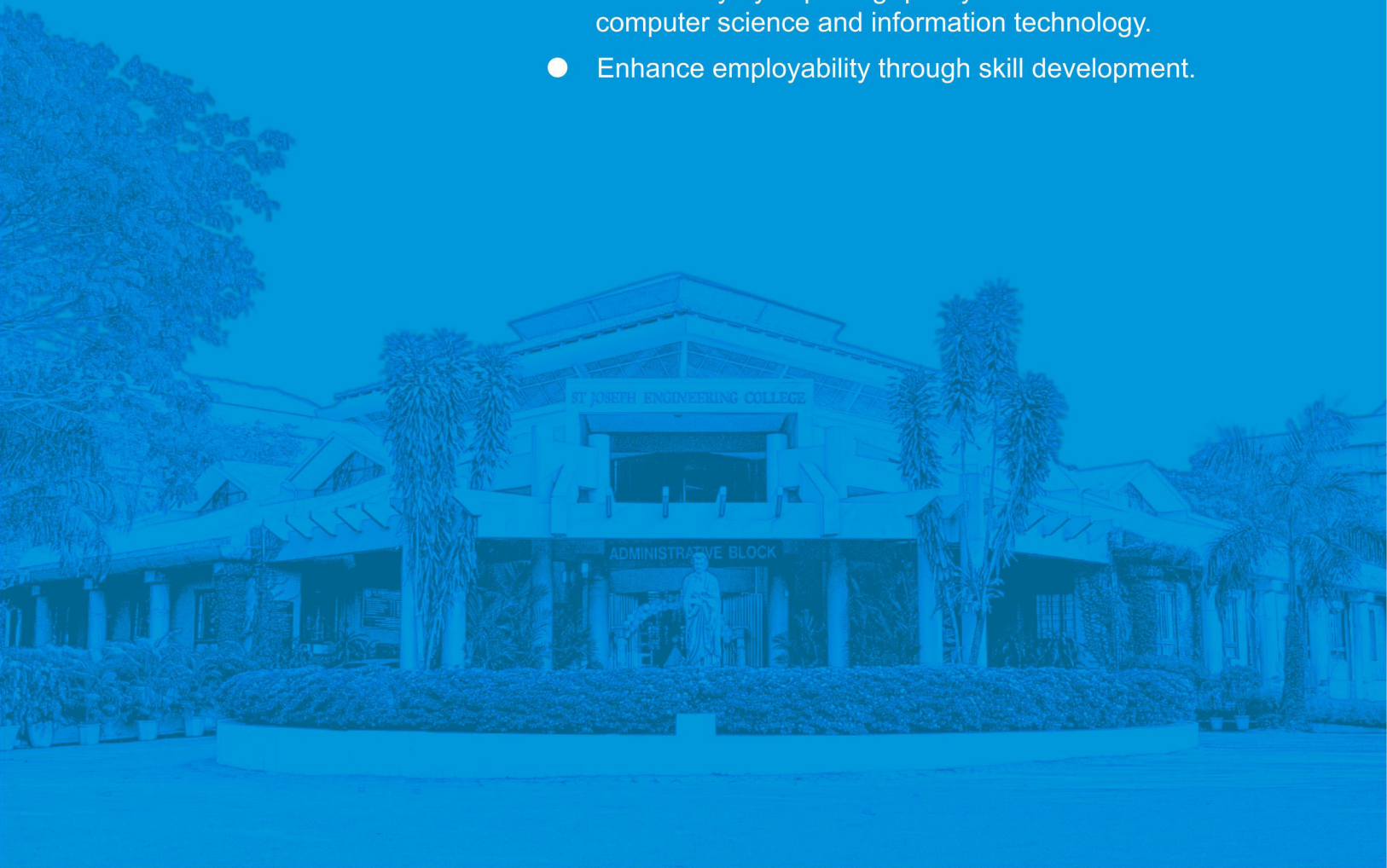
## VISION OF THE DEPARTMENT

To be recognized as a center of excellence in computer science and allied areas with quality learning and research environment.



## MISSION OF THE DEPARTMENT

- Prepare competent professionals in the field of computer science and allied fields enriched with ethical values.
- Contribute to the socio-economic development of the country by imparting quality education in computer science and information technology.
- Enhance employability through skill development.





## Director's Message

*Success isn't always about greatness. It's about consistency. Consistent hard work leads to success. Greatness will come. Dwayne Johnson*

*With a sense of deep pride and appreciation in my heart, I take this opportunity to write down a few words on the occasion of the release of the newsletter "COMPSENSE" of the Department of Computer Science & Engineering.*

*One of the departments that has always, consistently, worked hard to achieve great results in everything they do, is the Department of Computer Science and Engineering. Be it the faculty or the students, the department has carved a niche for itself in the college with their achievements and work. Surely, this magazine COMPSENSE will help the reader to relive the success that the department has had.*

*I would like to place on record, my gratitude for the Editorial Board of the magazine for finishing up the magazine well within the deadline. Congratulations to the entire department for all the good work and best wishes for the new academic year.*

**Rev. Fr Wilfred Prakash D'Souza**

*Director – SJEC*



## Assistant Director's Message

*"An innovation is one of those things that society looks at and says, if we make this part of the way we live and work, it will change the way we live and work" – Dean Kamen*

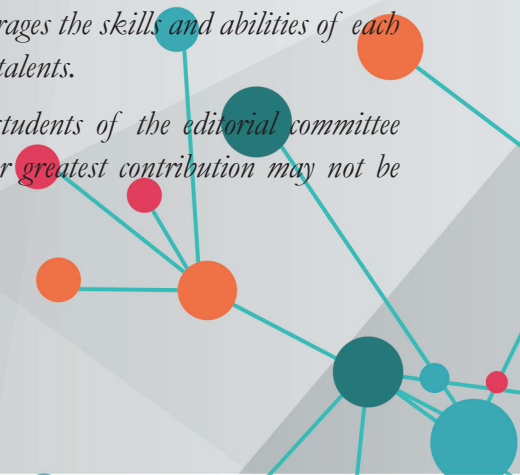
*I am delighted to know that the Department of Computer Science Engineering is bringing out its CompSense CSE Student Association Magazine "COMPSENSE" for the academic year 2019-2020.*

*Today, the role of a college is not only to pursue academic excellence but also to motivate and empower its students to be lifelong learners, critical thinkers, and productive members of an ever-changing global society. This can only be possible in a holistic, student-centric environment and this is the platform which identifies, nurtures and encourages the skills and abilities of each student and make them to display their ideas and creative talents.*

*I extend my greetings and best wishes to the staff and students of the editorial committee of "COMPSENSE" and wish them every success. Your greatest contribution may not be something you do but someone you raise. All the Best.*

**Rev. Fr Rohith D'Costa**

*Assistant Director - SJEC*





## *Assistant Director's Message*

*I feel extremely privileged to pen a few words to the newsletter COMPSENSE, the department of Computer Science and Engineering.*

*Good seed succeeds in giving good fruits; in a like manner Computer Science Department in our Institution is investing its maximum energy to reap good fruits. COMPSENSE is the result of their hard slog and dedication. We human beings always move towards success. When we receive good fruits we must not be content with it rather we need to make every effort to get better and harvest best fruits. The same principle must be relevant to us; we always need to focus our attention to reach that destination. I wish all the success in your future endeavors and applaud all the people who are responsible for this Newsletter.*

*May God bless you all.*

**Rev. Fr Alwyn D'Souza**

*Assistant Director - SJEC*



## *Principal's Message*

*It gives me immense pleasure to roll out the 10th volume of COMPSENSE-2019, the Newsletter of the Department of Computer Science and Engineering.*

*An educational system is one which gives not just mere information to students but works towards their formation, whereby focus is laid not only on academics but on "character formation with academic excellence". The department of CSE has an efficient team of facilitators who will carry the flame of education far and wide by imparting value based education as well as nurturing the skills and abilities of its students in co-curricular and extracurricular domains. This newsletter showcases the achievements of the students and the contributions of the faculty towards personal and professional growth and thereby development of the department of Computer Science and Engineering.*

*I heartily congratulate and thank the HOD, Faculty members and students as well as the editorial team in bringing out this department newsletter.*

**Dr Rio D'Souza**

*Principal - SJEC*



## *HOD's Message*

*The Department of CSE strives hard towards the goal of providing innovative and quality education with high standards to achieve academic excellence and provides platform for the students to achieve their career goals.*

*SJEC management has recognized the need to setup industry oriented labs for the students of the department and has signed a MOU with CISCO Network Academy. The Department has a team of highly experienced and motivated faculty members who are well versed in the process of tuning young minds to make them globally competitive.*

*Innovative methods of teaching and learning process are adopted to achieve learning abilities through practice, exposure and motivation. Six of our faculty members have completed three phase training of International Educator Program by IUCEE. Five of them are undergoing Phase II and four are undergoing Phase I. The International Educator Program trains the faculty to deliver contents to the millennial students through Innovative methods such as Active teaching methods, Collaborative & Cooperative teaching, Virtual labs and Flipped delivery method.*

*The department has excellent infrastructural, computing facilities and provides a conducive environment to promote academic and research excellence in the department. Above all, the entire teaching fraternity of the Department of Computer Science and Engineering look forward to the holistic growth of the department and they aim at doing something extraordinarily remarkable in the academic arena of Computer Science and Engineering.*

*I congratulate the team of faculty members and the students for their brilliant and original efforts. I wish all the Students and Faculty a great academic career.*

**Dr Sridevi Saralaya**

*HOD CSE –SJEC*



## *Editor's Message*

*It gives me immense pleasure in bringing out the 10th volume of the department newsletter COMPSENSE-2019 for the department of Computer Science and Engineering.*

*This Newsletter showcases the activities of various associations of the department. It provides a platform for the students to display their achievements in academics as well as extracurricular activities. It also exposes the contributions and interactions of the faculty with the outside world. I believe that this news letter would definitely create an impact in the minds of the readers.*

*I thank the management and the HOD of CSE department Dr Sridevi Saralaya for the invaluable suggestions and support. My heartfelt gratitude to my colleagues and students for the support given in bringing out this news letter.*

**Ms Smitha V George**

*Assistant Professor – CSE-SJEC*



# CONTENT

1. Department activities	08
2. Department Associations	
o Cipher	13
o CSI	20
o IEEE	25
o ISTE	27
3. Tiara 2019	28
4. Technova 2019	32
5. Training Programmes	33
6. Achievements	36
7. Industry Internship for the year 2018-2019	40
8. Placements	40
9. Signout 2019	42

## PROGRAMME EDUCATIONAL OBJECTIVES (BE-CSE)

- I. To impart to students a sound foundation and ability to apply engineering fundamentals, mathematics, science and humanities necessary to formulate, analyze and design and implement engineering problems in the field of computer science.
- II. To develop in students the knowledge of computer science and engineering to work in various fields networks, data, web and system engineering.
- III. To develop in students the ability to work as part of team through effective communication on multidisciplinary projects.
- IV. To train students to have successful careers in computer and information technology industry to meet the needs of society enriched with professional ethics.
- V. To develop in students the ability to pursue higher education and engage in research through continuous learning.

## PROGRAMME OUTCOMES (POs)

By the end of the undergraduate programme in CSE, graduates will be able to:

- a) Apply knowledge of mathematics, science, engineering fundamentals, computer science and engineering to solve complex engineering problems.
- b) Identify, formulate, research literature, and analyze complex engineering problems in reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- c) Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- d) Conduct investigations of complex problems using research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- e) Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- f) Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- g) Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of and need for sustainable development.
- h) Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- i) Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- j) Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, give and receive clear instructions.
- k) Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- l) Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

## PROGRAMME SPECIFIC OUTCOMES (PSOs)

By the end of the undergraduate programme in CSE, graduates will be able to:

1. Understand the principles underlying entrepreneurship and the requirements to initiate a startup in the IT or related domains.
2. Participate effectively in competitive examinations related to certification, career growth and admission to higher studies.

# DEPARTMENT ACTIVITIES

## *International Conference on Smart Computing, Communication & Control-2018 (ICSC3-2018)*

St Joseph Engineering College hosted its first ever International Conference on Smart Computing, Communication and Control (ICSC3-2018) on 11th and 12th June 2018. The conference was jointly hosted by the Departments of CSE, ECE, EEE and MCA.

ICSC3 was inaugurated with the lighting the lamp by the dignitaries including Dr L M Patnaik, Adjunct Professor-IISc and INSA Senior Scientist who was the Chief Guest at Ceremony and Mr Ramakrishna Bidri, Senior Agile Coach-SWET CoE, Alliance Technology Unit, TCS, Bengaluru alongside Rev. Fr Wilfred Prakash D'Souza, Director of SJEC, Rev. Fr Rohith D'Costa, Asst Director of SJEC, Dr Rio D'Souza, Principal of SJEC, Conference Conveners Mr Shreenath Acharya, Asst Professor, Dept of CSE and Mr Gandhimathinathan A, Asst Professor, Dept of ECE. During the course of the event, the dignitaries' released the proceedings of the conference.

The Inaugural on the first day was followed by a Keynote Address on Internet of Things (IoT) by Dr L M Patnaik which provided insight to how IoT can be used as a platform to provide automated solutions to socially relevant problems. The afternoon session saw a workshop



on Agile Methodologies and SCRUM anchored by Mr Ramakrishna Bidri.

The conference was livened up on the second day with a talk on "Polyglot Approach to Modern System Engineering" by Dr

Peter (Pjotr) Kourzanov, Senior Researcher at NXP Semiconductors, Netherlands. This talk had important implications for attempts to build autonomous vehicles and also to encourage Systems Thinking among the students. Dr Kourzanov was accompanied by Mr Oswald Sunil, Architect at NXP Semiconductors, Netherlands.

**The conference tracks were as follows:**

1. Communication Networks & Internet Technologies
2. Intelligent Systems & Knowledge Management
3. Micro Electronics & VLSI
4. Power Electronic Drives & Energy Management System
5. Smart Environments

All in all, 75 papers were shortlisted for oral presentations at ICSC3-2018 and 66 papers were presented in parallel during the conference, across all tracks.

**Track: Communication Networks & Internet Technologies**

There were 13 papers that were presented under this







track. The judges for this session were, Dr Shreesh Chokkadi, Professor, Department of Instrumentation & Control Engineering, MIT Manipal and Ms Dayakshini, Associate Professor and Head, Department of ECE, SJEC. The best paper award under this track was awarded to the paper titled "Power and Audio Control using Smart Automation", authored by David John Saldanha, Adlen D'Souza, Kottari Ashwini V, Madhushree T Chavan and A Gandhimathinathan, from the Department of ECE, SJEC.

**Track: Intelligent Systems & Knowledge Management (1)**

There were 14 papers that were presented under this track. The judges for this session were, Dr Jyothi Shetty, Professor & Head, Department of Computer Science and Engineering, NMAMIT, Nitte and Dr Sridevi Saralaya, Associate Professor & Head, Department of CSE, SJEC. The best paper award under this track was awarded to the paper titled "Remote Patient Health Monitoring System" authored by Murali K A, Abdul Raheem, Kaushik B U, Conred Sequeira and Priya S Miranda, from the Department of CSE, SJEC.

**Track: Smart Environments**

There were 13 papers that were presented under this track. The judges for this session were, Dr Pushparaj Shetty D, Assistant Professor, Department of Mathematical and Computational Sciences, NITK and Dr Kavitha Mahesh, Associate Professor, Department of CSE, SJEC. The best paper award under this track was awarded to the paper titled "Smart Car" authored by Runa Veigas, Rickson D'Cruz, Shubham Kumar, Ambareesha and Lavina D'Silva, from the Department of CSE, SJEC.

**Track: Intelligent Systems & Knowledge Management (2)**

There were 12 papers that were presented under this track. The judges for this session

were, Dr Antony P J, Professor & Head, Department of Computer Science & Engineering, AJIET, Mangaluru and Ms Sumangala N, Assistant Professor and Head, Department of MCA, SJEC. The best paper award under this track was awarded to the paper titled "Experimental Characterization of DWT and CS Compression Algorithms for Multi-Resolution ECG Data in WBAN" authored by



Rajashekar Kunabeva, Dr Manjunatha P, Kirankumar GH and Komalakumari, from the Department of ISE, GMIT, Davanagere.

**Track: Power Electronic Drives and Energy Management System**

There were 13 papers that were presented under this track. The judges for this session were, Dr Nagesh Prabhu, Professor & Head, Department of Electrical and Electronics Engineering, NMAMIT, Nitte and Mr Sathisha K, Assistant Professor, Department of EEE, SJEC. The best paper award under this track was awarded to the paper titled "PCB Printing using Automated PLOED Machine" authored by Winston Vishal D'Souza, Dacklin Prajwal Pinto, Meghna Prakash, Adithi S Rao and Prasad S M, from the Department of ECE, SJEC.



## ***FDP on Machine Learning held from 23rd July to 27th July 2018***



The Department of Computer Science and Engineering at SJEC organized a Five day FDP on Machine Learning from 23rd July 2018 to 27th July 2018. FDP focused on covering syllabus of Machine Learning and Machine Learning Laboratory as per 2015 CBCS scheme of VTU, Belagavi. Dr A. Venkata Narasimhadhan, Assistant Professor, NITK was the chief guest for the inaugural of the FDP on 23rd July, 2018 at 9:30 AM in Bishop Aloysius Paul Hall. The FDP was attended by 53 faculty members, out of which 23 members from neighbouring engineering colleges.

The esteemed personalities present at the inauguration are Dr A Venkata Narsimhadhan, Assistant professor, Dept. of Electronics and Communication, NITK, Dr Rio D'Souza, Principal, SJEC, and Dr Sridevi Saralaya, HOD, Dept. of CSE.



Dr Sridevi Saralaya welcomed all the respected dignitaries and the participants, Dr Rio D'Souza florally welcomed the chief guest Dr A. Venkata Narasimhadhan. Ms Sujatha M., Convener of the FDP read the brief schedule of the FDP. Dr Rio D'Souza, principal, SJEC appreciated the program organized by Department of CSE and highlighted the importance of Machine Learning.

The session started with the introduction on Machine Learning and Artificial Neural Networks by Dr A. Venkata Narasimhadhan.

On 24th July, 2018 Dr Deepu Vijayasenan, Assistant Professor, Dept. of Electronics and Communication, NITK discussed on Perceptron, Back Propagation Algorithms used in Artificial Networks and Evaluating Hypothesis. He explained the motivation, estimating hypothesis accuracy, basics of sampling theorem, general approach for deriving confidence intervals, difference in error of two hypothesis, comparing learning algorithms.

On 25th July, 2018 Dr Smitha N Pai, Professor, MIT, Manipal was the resource person. She discussed about Bayesian Learning, Instance based learning and Reinforcement Learning. She explained about Bayes theorem, ML and LS error hypothesis, ML for predicting probabilities, MDL principle, Naive Bayes classifier, k-nearest neighbor learning, locally weighted regression, radial basis function, cased-based reasoning, Q Learning.

On 26th July 2018 and 27th July 2018 Dr Thyagaraju G S, Professor and Head, Computer Science and Engineering, SDMIT, Ujire was the resource person. He explained Decision Tree Learning, Machine Learning using Python. He also



explained the basics of Python and Machine Learning lab programs.

The FDP ended with the distribution of certificates to the participants by Dr Thagaraju G. S., Professor, SDMIT, Ujire.

The FDP exposed the faculty to emerging area of Machine Learning. The FDP was mainly focused on developing basic understanding of principles of Machine Learning and deriving practical solutions.

## ***Faculty Enablement Program (FEP) on Infosys Campus Connect Foundation Program (FP) 5.0***

The Department of Computer Science and Engineering in collaboration with the Department of Computer Applications hosted an Infosys Campus Connect Faculty Enablement Program (FEP) on Foundation Program (FP) 5.0 at our college from 6th to 10th August 2018, for duration of 5 days. The main objective of this FEP was to enable Infosys Campus Connect partnering colleges to grab FP 5.0 and offer it to students with greater effectiveness and rigor. Also, it offers a networking platform to partner colleges leading to a mutual learning experience.

Infosys also invited faculty members from Campus Connect partnering colleges in Kerala, Tamil Nadu, Goa and Karnataka regions to take part in this FEP.

## ***Faculty Development Programme on Big Data***

The Department of Computer Science and Engineering hosted the Faculty Development Programme on Big Data from 17th to 19th January 2019 for all interested faculty and research



such workshops in the future. Dr Joseph Gonsalvis, Chief R&D, in his Presidential address spoke about the importance of Big Data and research opportunities in this domain. The Chief

scholars from various colleges in the state. The FDP was coordinated by a team of faculty and technical staff coordinated by Ms Vijetha U & Ms Pramila R M. This FDP aimed at familiarizing the faculty with the various tools that can be used to work with Big Data. The FDP received a good response from faculty and scholars from various colleges. There were a total of 25 participants from neighboring colleges and 10 internal participants.

The programme began with a formal Inaugural session on 17th January 2019. Dr Sridevi Saralaya, HOD of Computer Science and Engineering welcomed the guests, the resource person and the participants of the workshop. Dr Sudheer M, In-charge Principal and the guest of honor of the function briefed the participants on the concepts on Big Data and invited the participants to attend many

Guest of the Inaugural function Mr Animesh Yadav, Big Data Consultant at ATS Learning Solutions and the resource person of the FDP, encouraged the gathered participants to make maximum use of this opportunity to enhance their knowledge on Big Data. Ms Pramila concluded the formal function by proposing the vote of thanks.

The FDP sessions began with the Installation of Hadoop with VM & Hortonworks Sandbox. The participants were encouraged to install the software on their own and Mr Animesh assisted them to troubleshoot the various issues that one comes across when installing Hadoop ecosystem. The participants were then taught to migrate files and data from the local machine to Hadoop ecosystem. In the next session, the resource person introduced the participants to the concept of MapReduce with relevant





hands on examples.

On the second day, analysis tools such as Pig and Hive were discussed in detail. The participants were taught how to create and run scripts using Pig and query the data using Hive.

The third day of the FDP included hands-on session on creation of nodes and data visualization using Amazon Web Services (AWS) Console Management. The participants were later taught about working with datasets and working with the tool MLBox.

This three day FDP was appreciated by all the participants who were happy to have received such valuable information from an enthusiastic Big Data specialist. At the end of the programme, the HOD appreciated Mr Animesh Yadav for this whole-hearted contribution towards the success of the workshop and presented him with a memento as a token of appreciation. The training programme ended with the distribution of certificates to all the participants.

## ***Faculty Development Refresher Programme on "New Age Skills for Excellence in Teaching" -2019***

The Department of Computer Science and Engineering hosted the Faculty Development Refresher Programme on



"New Age Skills for Excellence in Teaching" on February 16th, 2019 for the faculty members of different departments of SJEC. The FDP aimed at bringing awareness among the faculty members on the skills required to excel in teaching in the present day. There were a total of 30 faculty members from across the various departments of SJEC that participated in the FDP.

Ms Pramila D'Souza from the Department of Chemistry was the master of the ceremony. The FDP began with Ms D'Souza welcoming the gathering. The Principal Dr Rio D'Souza introduced the resource person Mr Praveen Kamath, General Manager & Head HR- Technology Practice Units, Wipro Ltd., Bengaluru to the participants. Dr Rio D'Souza also addressed the participants about the expectations of the present day students from the

faculty members and the steps that can be taken to meet them. Rev. Fr Wilfred Prakash D'Souza, The Director, Rev. Fr Rohith D'Costa, Assistant Director, Dr Joseph Gonsalves, Chief - R & D, Dr Sridevi Saralaya, Head of the Department of CSE graced the occasion.

Mr Praveen Kamath shared his expertise with the participants on the skills required by the faculty



members in the present day to excel in their profession. The participants took part in the FDP enthusiastically throughout the day and shared their experience at the end of the session. Dr Rio D'Souza presented a memento to the resource person Mr Praveen Kamath appreciating his contribution for the benefit of the faculty members. The FDP ended with the distribution of participation certificates to the participants. The Convener of the FDP, Ms Anusha M M, Assistant Professor from the Department of Computer Science and Engineering proposed the vote of the thanks.

# DEPARTMENT ASSOCIATION- CIPHER

## *Cipher And CSI Inaugural 2018-2019*

The department of Computer science & Engineering of St Joseph Engineering College inaugurated their department association CIPHER and CSI-SJEC Student Chapter for the academic year 2018-19 on 7th September 2018 at 10:00AM in the Kalam Auditorium, Academic Block-II.



year 2018-19 innovatively by displaying LED cube developed by 3rd and 4th year Electronics and Computer Science students to symbolically inaugurate the CIPHER and CSI Student Chapter of SJEC. The roadmap of activities planned by CIPHER and CSI for the current academic year were presented by Mr.

The inaugural function was compered by Ms. Fiona Saldana, it commenced by calling upon the college choir to invoke God's blessings through a prayer song.

Carlton Rodrigues, President-CIPHER and Mr. Naren Bhandary, President-CSI, respectively.



Ms. Sasha Rodrigues, Secretary-CIPHER read out the names of meritorious students for their outstanding performance in the previous year and also the student achievers who cleared the TCS Global Coding Contest-Codevita, were honored by Chief Guest and Assistant Director. Students who came up with most creative masquerades and the creative writing winners were also honored.

A power point presentation of the Annual Report of CIPHER 2017-2018 was presented to the gathering.

Dr. Sreekanth N S, Scientist 'D' / Principal Technical Officer, C-DAC, Bengaluru was the Chief Guest of the program. Rev.Fr. Wilfred Prakash D'Souza, Director-SJEC presided over the function. Rev.Fr. Rohith D'Costa, Assistant Director-SJEC and Dr. Rio D'Souza, Principal-SJEC were the Guests of Honor. Dr. Sridevi Saralaya HOD- CSE, Mr. Carlton Rodrigues, President-CIPHER, Mr. Naren Bhandary, President -CSI, were also present on the dais.

Dr. Sridevi Saralaya HOD- CSE, welcomed the dignitaries and introduced the chief guest to the gathering after which the program was inaugurated by lighting the lamp. The chief guest inaugurated CIPHER association for the



Principal, Dr. Rio D'Souza addressed the gathering with his inspiring words and congratulated the students for securing good results each year.

The Chief Guest, Dr. Sreenkanth N S, encouraged the students by talking on various research works and to participate in a variety of competitions and tech-fests and procure experiential learning in the form of projects and

internships. He described the importance of Computer Science as a profession.

The honorable Chief Guest was felicitated with a memento presented by Rev.Fr. Wilfred Prakash D'Souza.

Rev.Fr. Wilfred Prakash D'Souza, Director-SJEC delivered the Presidential address wherein he motivated the students to focus on their goal and reach greater heights.

The formal event concluded with the Vote of Thanks delivered by Ms. Shreema, Joint Secretary- CSI, and a dance performance followed by the College Anthem. A technical talk with an informative presentation on "Human

Computer Interaction" was conducted for the audience by the chief guest and was followed by honoring of students who successfully completed their web application projects in Django framework.

Delicious lunch was served to all students and staff present. An informal function was conducted by 3rd and 4th year students to welcome the 2nd Year students into the Department of Computer Science and Engineering. Games were conducted for students and faculty as well. The CIPHER inaugural function marked its end with flash mob followed by baila.

## ***Talk on Accessible and Multimodal Computing (Human Computer Interaction)***

The Chief Guest of Cipher & CSI inaugural function (2018-19), Dr Sreekanth N S, Scientist 'D' / Principal Technical Officer, C-DAC, Bengaluru presented a technical talk on 'Accessible and Multimodal



Computing(Human Computer Interaction)" on 7th September, 2018 at Kalam Auditorium after the Inaugural function. The session began at 11:00 AM.

The introduction comprised of the objective of Human computer Interaction .The speaker explored HCI in people's learning, computing technology, the interaction between them and the influence mechanism, and he made a point that, ultimately the goal is to achieve the wide application of computing technology.

Dr Sreekanth gave an insight into the HCI field. He said that the growth in Human-Computer Interaction (HCI) field has not only been in quality of interaction, it has also experienced different branching in its history. Sometimes called as Man-Machine Interaction or Interfacing, concept of Human-Computer Interaction/Interfacing (HCI) was automatically represented with the emerging of computer, or more generally machine, itself.

In the next half, he spoke about HCI design aspects. Dr. Sreekanth explained the complexity of the degree

of the involvement of a human in interaction with a machine. In his explanation, he gave an example of simple website subjected to limited functionality, shall be considered as complex enough in usability to attract and keep customers.

Therefore, in the design of HCI, he urged the importance of thorough thought of defining activities that involves a user with a machine.

In his continued session, Dr Sreekanth gave an insight into recent advances of research in HCI, intelligent and adaptive interfaces and ubiquitous computing. He said that one can define the concepts by the apparent growth and improvement in functionality and usability of new devices in market using these approaches.

In his concluding session, Dr Sreekanth said that HCI is an important part of systems design. He said that quality of system depends on how it is represented and used by users. Therefore, enormous amount of attention has been paid to better designs of HCI. He then gave a brief description of ongoing research projects and scope of it in the future. Dr Sreekanth concluded his session at 12:30noon. It was then followed by certification distribution for the students who have successfully completed "Application development using Python Django framework". All the 2nd, 3rd and 4th year students of BE, CSE students along with the faculty members attended the talk.

## Engineers' Day Celebration

CIPHER has celebrated Engineers' Day on 20th September, 2018 for B.E. Students of the Department of Computer Science & Engineering



Three events were conducted as part of the celebrations: Technical Event (execCode), Semi-technical event (Blast the Code), Semi-Technical event (The Cell Man). The Details of the events are provided below.

### 1. execCode

The technical event of the Engineers' Day 2018, execCode, was based on programming knowledge in various languages such as C, Java and Python. There



were 14 teams with 2 members in each team. Each team was given a question paper consisting of 3 questions. The first question was comparatively easy and was given 4 points. The second question was given 6 points and the third question was comparatively difficult and was given 10 points. Only the first 10 teams were considered. The evaluation for choosing the winners was based on the number of test cases each code passed.

**Winners:** The first place was bagged by Raghavendra Bhat S and Prajwal Perciwal Antony D'cunha of 7th semester followed by Tejas N Suvarna and Shameek M of 5th semester who bagged the second prize.

### 2. Blast the code

The event "Blast the Code" was a semi-technical event. The event encompassed technical aspects like the

knowledge of prominent technology personalities, programming knowledge along with non-technical topics which included famous brands and common knowledge about our college.

The first round was an audio-visual round which saw thirty-five teams of three participants each, participate in a quiz which tested their general knowledge. They had to identify few prominent personalities and guess company/product logos. Twelve teams moved to the second round. The second round was a treasure hunt where the participants



had to identify few locations inside the college and collect clues for the next round. Nine teams qualified for the last round where the teams had to search for the code snippets hidden in various folders. Had to arrange the code found in the previous round and the code snippets from the various folders and get the desired output.

**Winners:** The first place was bagged by Pragathi S. Beedu, Pramatha and Poojitha R of 7th semester, followed by Pradyumn Shenoy, Sabitha Nazareth and Nihal Pallad of 7th semester who bagged the second prize.

### 3. The Cell Man

The event "The Cell Man" was a semi-technical event. This event consisted of three rounds which were: the fastest finger, the eyes and the silent argument.

The fastest finger first was the first round where the



contestants had to type codes in WhatsApp and message in the group their codes. They were given a choice of three programs; Fibonacci series, palindrome and bubble sort in any of the following languages. C, C++ and Java.

The contestants were given 10 minutes to type and send their codes and out of 25 participants 13 were short listed for the next round.

The second round was the eyes where the contestants were given 15 minutes to click a picture from their phones and had to speak about it for 2 minutes. 6 participants were shortlisted to the next round

The third and the final round was the silent argument where two contestants were debating on a given topic using their phone.

**Winners:** The first place was bagged by Sai Prasad of 3rd semester followed by Abigail of 3rd semester who bagged second place.

## *Tips to Crack the Campus Placement Interview- Workshop*

CIPHER has organized a one day workshop on "How to crack the Campus Placement Interview" on 28th September, 2018 at Bethania Hall for 3rd year B.E. Students of the Department of Computer Science & Engineering. The speaker was Mr Anil Kumar H, Senior Software Engineer, BOSCH, Bengaluru.

of being technically sound before being hired as that would ensure job security. The group dispersed for lunch at 1 pm.

The workshop resumed at 2 PM. post lunch with a session on various important and frequently asked programs such as Fibonacci series, factorial of a number computing GCD of two numbers etc.



The last session had the speaker giving tips to students on cracking the Group Discussion round as well as Human Resource interview. He highlighted the relevance of eye contact at all times as well as the positive impact of initiation,

listening skills and positive attitude in group discussions.

The workshop began with a silent prayer followed by a brief welcome of the guest and the gathering by Ms Elrica, Vice-President, CIPHER. The Head of the Department of Computer Science, Dr. Sridevi Saralaya introduced the guest to the gathering.

The first session began with tips on cracking the technical round in interviews. The resource person highlighted the importance of obtaining an offer letter from a company before graduating from the college. He briefed the students on the basics of C programming and highlighted the importance of C programming knowledge in technical interviews. Furthermore, he gave a reference list of textbooks and apps for students to improve their programming skills. He also stressed on the importance

Mr. Kumar stressed on the importance of etiquette during interviews. He also spoke about exposure to examinations like AMCAT, eLitmus and the like which could also provide broader options in taking jobs in various streams such as Healthcare, Automotive, Telecom, Embedded, etc. As a parting advice, the resource person mentioned that one should gain experience for at least two years before considering post-graduation as that would provide a stronger ground for gaining a foot-hold in Universities. The workshop concluded at 3:30 pm by felicitating the resource person with a memento by the staff coordinator, Ms Gayana M N and Carlton Rodrigues, the President of CIPHER delivering the vote of thanks.



## IP Security- Workshop



Initially, a pre-session assessment was conducted to judge the calibre and knowledge of the students. This was followed by the morning session on the topics

CIPHER & IIEDC has organized a one day workshop on "IP Security" on 27th October, 2018 at Bishop Aloysius Paul Hall followed by hands on session at CSE webinar Hall for 3rd year B.E. Students of the Department of Computer Science & Engineering. The resource person was Mr Rahul Dutta, Associate Engineer, J P Morgan, Hyderabad.

The programme commenced at 9:30 am with a welcome address given by Ms. Darly Saldanha followed by a silent prayer.

The resource person for the day was Mr. Rahul Dutta, an Associate Engineer in J P Morgan, Hyderabad. The HOD of the Computer Science, Dr Sridevi Saralya welcomed the resource person and addressed the gathering, following which Mr. Dutta commenced the workshop.

Data Encryption Standard, Deffie-Hellman Algorithm, DoS attack, User imitation attack and how to overcome them. In the afternoon, a hands-on session was conducted on Creation of VPN tunnel for Secure Data transmission for Linux and Windows along with the implementation of the topics covered in the morning session to help the students inculcate practical knowledge on this domain. The faculty in-charge and student coordinators were also present for the session.

The workshop ended with a post-session assessment at 5:00 pm following which Ms. Darly Saldanha proposed the vote of thanks. A memento was presented by Mrs. Gayana M N to Mr. Dutta as a token of appreciation. The entire workshop was coordinated by IIEDC coordinator Dr Usha Divakarla in co-ordination with CIPHER association.

## AURORA-2019

CIPHER -the student association of Computer Science Department of St. Joseph Engineering College hosted an Intra-Departmental fest 'AURORA-2019' on 21 February,2019. The fest comprised of three events that were categorised into technical, semi-technical and non-technical.

### Technical event

Condense:

Three members form a team and three rounds in total

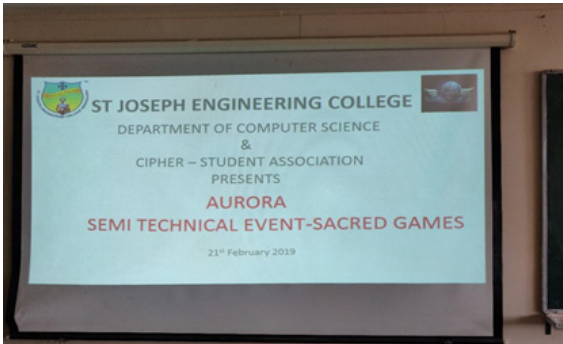
Round 1: Technical quiz based on computer concepts

Round 2: Debugging

Round 3: Coding

The first place was bagged by Mr Ivor D'Souza and Deepesh Bhat of third year. The second place was won by Mr Krishnakanth Upadhyaya and Mr Deepesh Bhat of third year.





**Semi-technical event**

**Sacred Games**

Three formed a team. There were three rounds in total,  
 Round 1: Fun quiz on random topics  
 Round 2: Treasure hunt  
 Round 3: Coding and audio visual round

The first place was won by Ms Pragathi, Ms Pramatha and Ms Poojitha of final year whereas the second place was won by Mr Preetham, Mr Shravan and Mr Nithin of third year.

**Non-Technical Event**

**Connexity**

This non-technical event comprised of team of 3 members with 4 rounds

Round 1: general knowledge quiz  
 Round 2: logo quiz and audio visual quiz  
 Round 3: treasure hunt  
 Round 4: one minute talk on a given topic. The last round was judged by Ms Evita Coelho and Mr Gerald H F, Assistant professors of CSE Department.

The first place was bagged by Mr Aronstun, Mr Jayasurya and Ms Andrea of second year whereas, the second place was won by Mr Winston, Mr Bryan and Ms Deeksha of second year.

The winners received certificates and gift vouchers that were sponsored by the college.

**Block Chain -Workshop**

A workshop on block chain technology was organized by CIPHER, A student association of the Department of Computer Science and Engineering for the students of 6th Semester on 23-02-2019 from 10:00 am to 05:00 pm at Bishop Aloysius Hall, followed by CSE webinar Hall. Mr. Marimuthu C, Research Scholar, Department of CSE, NITK, Surathkal was the resource person.



Initially, a pre-assessment was done to just gauge the knowledge of students on Block Chain Technology. Then, the session began with an introduction on the basic

ideology of block chain technology. The resource person highlighted the cutting edge technology by giving some real world examples.

Through analogy, different use cases, he explained the wide applications of block chain

which includes energy sector, supply chain management, e-voting, real estates, data storage etc.

The speaker also told about the various end users and terminologies used in block chain. Mr Marimuthu also made awareness on overall adoption rate of block chain technology. Furthermore, he made it an interactive session discussing the merits and demerits of the block

chain process. The group dispersed for lunch at 1 pm.

The workshop resumed at 2 PM. The post session was hands-on. In this afternoon session, the presenter told about ethereum which is a block chain based application.

The participants were instructed to install ethereum and configured it according to the directions given by the speaker. He also told about the various commands used in establishing the connection and data mining.



The students worked in pairs and performed data mining by sharing their IDs. As a parting advice, the resource person mentioned that one should update their technical skills by attending such workshops. The workshop concluded at 4:30 pm by felicitating

the resource person with a memento by the staff coordinator, and Ms Jahnavi Hehar delivering the vote of thanks.

## *Peer-to-peer session on "Desktop Application Development"*

CIPHER has organized a peer-to-peer session on "Desktop Application Development" on 2nd April, 2019 at CSE Webinar Hall 2nd year B.E. Students of the Department of Computer Science & Engineering.

The speaker was Mr Naveen S Pai, sixth sem student and his team. He along with his other friends demonstrated the desktop application projects they had done during their fourth semester. During the session, he stressed upon the importance of carrying out such mini projects. He said that, these projects are helpful in developing application projects in the higher semesters.

He briefed about the steps / guidelines in carrying out Desktop Application Development projects. He spoke about the frameworks used for the same. He also made the point that in Windows developing software solution is complex in nature. He made the point clear that developing such applications are important even though the programmer need to deal with many issues such as multi-threading and a lot of UI work .The session was coordinated by Ms Pramila M & Ms

Chaithra, Asst. Professors, Department of Computer Science & Engineering.



# CSI-SJEC CHAPTER

## *Industrial Visit To Infosys, Mudipu*



company which involved overview about the wide range of products as well as services, work culture and CSR activities carried out by Infosys. This was followed by a brief power point presentation about the path traversed by Infosys.

The technical session was covered by Mr Raviraj Belma, Senior Project Manager at Infosys. He elaborated on transition from college campus to the corporate life and briefed about the recent and popular trends in IT industry.



CSI - SJEC Chapter and CIPHER - student association of CSE department, organized an industrial visit to the campus of Infosys at Mudipu, Mangaluru on 12th March 2019 for the sixth semester students of CSE department. A total of 123 students participated in the industrial tour.

Ms Sunitha Guruprasad - Coordinator of CSI chapter, Ms Gayana M N - Coordinator of CIPHER and Mr Sunil Kamath - Department Coordinator of CSI, accompanied the students.

He also stressed upon the importance of communication skill, thinking out of the box, willingness to learn and adopt new technologies and working in teams by sharing ideas. Students were given an opportunity to put forward their queries and get information about how the industry works.

The sessions were both informative and entertaining and the students learnt a great deal about how the industry works. This was followed by a campus tour where the Training Center, meeting rooms and other benefits offered to the employees were shown.



After an hour long commute to the campus, the person in-charge, Ms Veena Amrith, Senior Member - Education, Training & Assessment at Infosys Limited, welcomed the students and the faculty. Students were made to gather in an auditorium and given a brief introduction about the

The industrial visit gave all the students an insight about the working of the industry. It also gave them an idea about the work environment of the employees and the various facilities available. The visit was a memorable and encouraging experience for the students.

## ***CIPHER-CSI Combined ORPHANAGE VISIT***

CSI in Association with CIPHER has undertaken a charity event on 25th April 2019 to PRASHANTH NILAYA Jeppu Mangalore. An amount of 7,600/- was donated to the Orphanage along with eatables, Banana, Clothes, Biscuits and Groceries.

The visit started at the college on 25th April 2019 at 2.00pm when around 40 of the Final year students of A,B and C section along with CSI students boarding the bus and reaching Prashanth Nilaya Jeppu at around 2:50 pm. After that the incharge orphanage briefed us about were having many sections disabled, Diseased and gents She informed the students taken care of by the inmates over time and no one were on caste/religion basis and care of alike.



Sister of the the Orphanage which like mentally section separately. that they were who had improved discriminated based every one was taken



After that she took us on a round of the premises wherein all of us followed her. She took us first to a Block where ladies mentally challenged were kept. Inmates received us well and even sang and danced for us. This was followed by SJEC students singing for them some of the Bollywood tunes and prayers. After this we visited the disabled section which had few inmates who were bed ridden and some of the other inmates taking care of them. Then we were taken to rooms of elderly and some blind inmates who received us well and interacted with the students. Then we were taken to the dining room of elderly male inmates and then to the church back again.

Here we had a group Photo being taken and all the donation amount being handed over to the Incharge sister and all the eatables being handed over. The visit concluded with prayers and all of us left the premises by 4:10 pm.

## ***Peer To Peer Learning Session on Computer Graphics and Web Technologies***

On the 22nd March 2019, the students of the third year CSE were treated with a surprise. The fourth year CSE students decided to demonstrate various projects that were done by them, in order to inspire their juniors with something new. As third years have to do a mini project in CGV Lab in the sixth semester and web lab in the seventh

semester, it was only natural that they took to the help of their seniors.

After the brief on CGV and Web Technologies by Mr Naren Bhandary, President of CSI association, the seniors showcased a variety of interesting projects. From traffic control system to a restaurant websites, these students



put in a lot of time and effort to make their projects a great success.

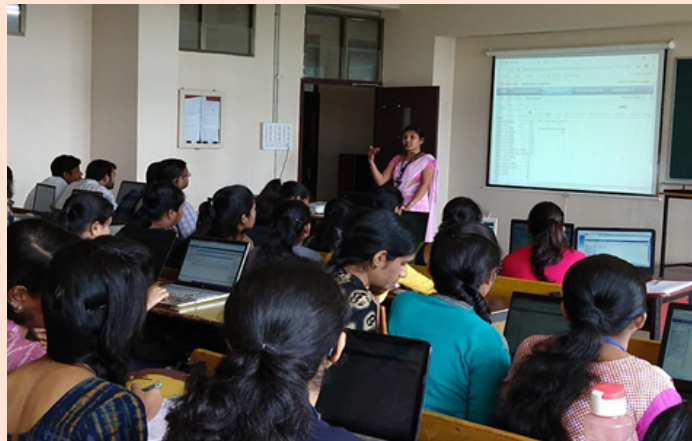
The session was well coordinated by Ms Sunitha Guruprasad, staff Coordinator of CSI-SJEC Chapter and Mr Naren Bhandary, Ms Poojitha, Ms Pragathi Beedu, Ms Crystal Fay Dsouza and Ms Shreema Simran, office

bearers of CSI-SJEC Chapter.

Overall, this gave the third year students a great sense of wonder for what their seniors have done. This gives them the motivation to get to the same level as their seniors or even better.

## *DB Application Development*

The CSI-SJEC Chapter conducted a hands-on session on "DB Application Development" using Java language for 5th semester CSE students on 18th September 2018 at 2.00 p.m in the class rooms 3602 and 3603, Academic block-III.



The session was welcomed by Ms Sunitha Guruprasad and Mr Sunil Kamath, Coordinators of CSI and Dr Sridevi Saralaya, HOD, Department of CSE.

Ms. Pramila R M, Assistant Professor, Department of CSE was the resource person. She briefed the students with Initial installation procedure of the JDBC driver.

She also explained the procedure of creating a Web Page effectively using Netbeans IDE. The procedure to create different front end and web components was explained.



Further the core part of the web application, to create Back-End Database was explained using Oracle 11g software. Finally the code to connect JDBC to Data Base was explained and connection between J2EE component and Data Base was established by all the students.

All students asked many of their doubts and clarified it. Students got a useful demo and also a hands-on experience on JDBC connection which is important to develop a web application. On the whole the session was interactive and the session was helpful one.

Ms Sunitha Guruprasad, Staff Coordinator of CSI, presented a memento to the resource person for her effort.

The session was concluded by thanking everyone by Mr. Naren Bhandary, President of CSI association.

## Image Processing and its Applications Workshop

The CSI-SJEC Chapter conducted a workshop on "Image Processing and its Applications" using MATLAB on 10th November 2018 from 9:30 am to 4:30 pm in the BAAP hall and IoT Lab. The workshop was open for the third and fourth year students of BE-CSE and second year students of MCA.

The inauguration of workshop was compered by Ms. Daryl Saldanha and was commenced with a silent prayer.

The HOD of the Department of CSE, Dr Sridevi Saralaya welcomed the resource person, Dr P. C. Siddalingaswamy, Associate professor, MIT, Manipal with a bouquet of flower.

Dr P. C. Siddalingaswamy started the session with a brief introduction to Digital Image processing (DIP). He also elaborated on the applications of Image processing concepts in various fields. Difference between Computer Vision and Digital Image processing was discussed.

The second session was about Augmented / Virtual Reality, Medical Imaging, Image registration and Image Enhancement. A brief introduction on the various softwares



that can be used for implementing the DIP projects was given to the students.

The afternoon session started at 2:00 pm. It was a Hands-on session conducted in IoT lab, where the students were taught about the applications of DIP using MATLAB.

All students asked many of their doubts and clarified it. Students got a useful demo and also a hands-on experience on MATLAB and DIP. On the whole the session was interactive and helpful to students.

Ms Sunitha Guruprasad, Coordinator of CSI-SJEC Chapter, presented a memento to the resource person for his effort.

The session was concluded by thanking everyone by Mr Sunil Kamath, Department Coordinator of CSI.

The workshop was jointly coordinated by Mr Sunil Kamath and Ms Sunitha Guruprasad, Coordinators of CSI. Mr Naren Bhandary (President), Ms Poojitha (Secretary) and Ms Pragathi Beedu (Treasurer) of CSI, volunteered for the workshop. The photographs were taken by Mr Calvin, final year CSE student.

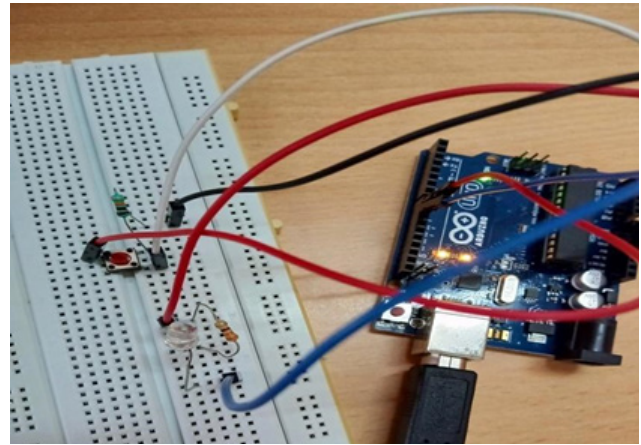
## Raspberry Pi Programming

The department of CSE in association with CSI-SJEC Chapter conducted a hands-on session on "Raspberry Pi programming" using Java language for 5th semester CSE students on 26th and 27th April, 2019 at 10:00 AM - 4.30 PM in the CSE department webinar hall, Academic block-III.

The hands-on session was led by Mr Gopala Krishna Bhat Kakunje, Director of Kakunje Software Pvt Ltd. The target audience was the final year CSE students. The resource person demonstrated the installation of IDE and of the OS on the Raspberry Pi board. The students were



facilitated to build hobby projects using the Raspberry Pi board and Arduino board along with basic sensors, actuators and other components. The students used the humidity sensor, temperature sensors to build small circuits. The students worked in teams to build the circuits to read values from the environment and initiate appropriate actions. The session was interactive and provided the students with basics of using smart kits for building solutions to simple engineering problems. Ms Evita Coelho, Assistant Professor, Department of CSE was the convener along with Ms Supriya Salian, Assistant Professor, Department of CSE. The session concluded with a note of gratitude by Ms Supriya Salian.



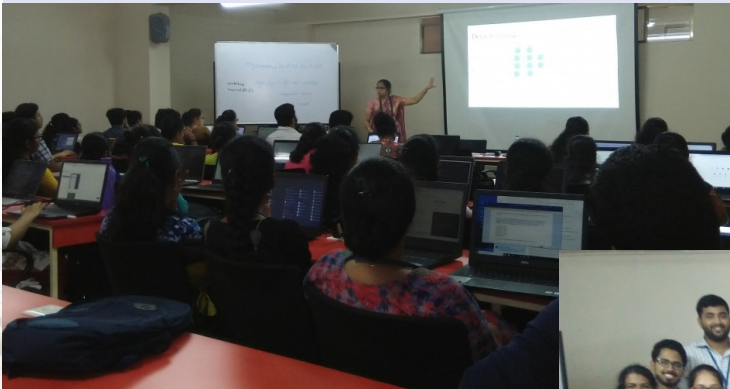
## ***Neural Network and its Applications Workshop***

The CSI-SJEC Chapter organized a hands-on workshop on "Neural Network and its Applications" using python on 13th April 2019 from 9:30 am to 4:00 pm in the Webinar hall of CSE department. The workshop was open for the third and fourth year students of BE-CSE and second year students of MCA. The resource person was Dr Smitha Pai, professor, MIT, Manipal.

"broadcasting" and vectorization of code. The group dispersed for lunch at 1 pm.

The afternoon session started at 2:00 pm. The session included topics on 'Building a logistic regression classifier to recognize cats', 'Planar data classification with one hidden layer', 'Building a deep neural network for image classification with as many layers' and 'Applying a deep neural network for supervised learning'.

The workshop concluded at 4:00 pm by felicitating the resource person with a memento by the staff coordinator and delivering the vote of thanks. The workshop was jointly coordinated by Ms Sunitha Guruprasad and Mr Sunil Kamath, Coordinators of



Ms. Sunitha Guruprasad, staff coordinator of CSI-SJEC Chapter welcomed the resource person. Initially, a pre-assessment was done to just gauge the knowledge of students on Neural Network Technology. Dr Smitha Pai started the session with a brief introduction to Neural Network. She also elaborated on the applications of Neural Network concepts in various fields. The resource person highlighted the cutting edge technology by giving some real world examples.

The second session was a Hands-on session. A brief introduction on the use of numpy functions and numpy matrix/vector operations of Python was given to the students. This was followed by code on understanding



CSI. Ms Theresa Reshma Pinto, Ms Nikhitha Shetty and Ms Divya B, technical staffs of the department, provided technical help to the students throughout the workshop.

Students got a useful demo and also a hands-on experience on Neural Network and python. On the whole the session was interactive and helpful to students.

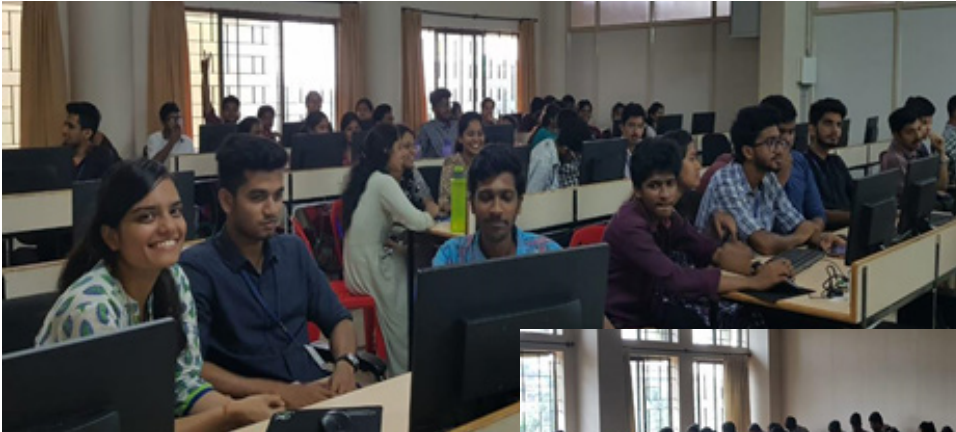


# IEEE-SJEC CSE Chapter

## IEEE Day Event

DigiHunt, a semi-technical event hosted by IEEE SJEC CSE Chapter was conducted on October 3rd, 2018 at

CodeRunner, a 4 hours online coding contest was organized by the IEEE Computer Society Chapter, SJEC and the Department of Computer Science, SJEC on 5th, October, 2018. It was conducted on the occasion of IEEE day and was open to the students of all branches and all semesters. It was a team event; wherein a single team consisted of a maximum of three members.



St. Joseph Engineering College, Mangalore. It was conducted on the occasion of IEEE day, and was open to the students of all branches and all semesters. It was a team event; wherein a single team can consist of a maximum of three members. The event received a good response, as 81 teams registered by the deadline. The event began at 1.30 PM in the designated classrooms of CSE Department.

The event consisted of two rounds. The first round was a semi-technical quiz consisting of basic trivia. The 40 highest scoring teams were selected to play the second round. The second round started with a technical crossword puzzle, on completion of which, a website URL would have been given to them. The URL would lead them to a game which consisted of 7 rounds, a few of them being: guessing the output of code, solving a tower of Hanoi problem and riddles of guessing numbers based on clues.

Ms Anvitha, Mr Calvin and Mr Alston of 4th year CSE won 1st place. Mr Rayan Smith Lewis, Mr Shane Misquith and Mr Mohammed Ridhun of 2nd year CSE won 2nd place in this contest. Based on the participants' feedback, the event was unique and extremely enjoyable; and they hope to partake in similar events in the future. The event was coordinated by Ms Sujatha M, Assistant Professor, CSE Department, Ms Usha Devi, Assistant Professor CSE Department, and Ms Jyothi Miranda, 4th year CSE.



There were 31 teams with 80 participants in total. The event began at 9:00 AM in the designated laboratories.

The contest was conducted on HackerEarth as the coding platform. The teams were given 4 hours to solve 4 problems with varying difficulties. Participants had to solve these problems by writing efficient code in any programming languages of their choice. The judging criteria included the efficiency of the code and the number of test cases passed. Students were allowed to access the internet and implement the concepts. To familiarize with the coding platform, the participants were also provided with a mock test one day before the event. Ms Vaishnavi Naik, Mr Pranav Bhat and Mr Nihal Palled of 4th year won 1st place. Ms Fiona Saldanha, Mr Calvin Clint Dsouza and Mr Abhinandan Ghosh of 4th year won 2nd place in this contest.

The event was coordinated by Ms Sujatha M., Assistant Professor, CSE Department and Mr Raghavendra, 4th year, CSE Dept. This event helped the students gain insight into Competitive Programming and also enabled them to learn new concepts of programming.

## Technical Talk on "Recent Trends in Image Processing"

A technical talk on "Recent Trends in Image Processing" organized by IEEE SJEC student branch in association with Department of Computer Science and Engineering for the students of Computer Science and Engineering, Electronics and Communication Engineering and Electrical and Electronic Engineering of St. Joseph Engineering College on 6th March, 2019.



Ms Sujatha M., Asst. Professor, CSE and IEEE student Branch coordinator-CSE welcomed speaker Dr Jidesh P. and the gathering and introduced the speaker Dr Jidesh P., Assistant Professor, Department of Mathematical and Computational Sciences, NITK, Surathkal to the audience. Dr Rachana P., Associate Professor of CSE Department florally welcomed the speaker with a baguette.

The speaker spoke about image processing techniques in current research perspective. He gave an insight on enhancement of image, denoising, restoration,

morphological processing, segmentation, compression techniques. He also gave insight to projects and research in the area of image processing, tools and open access database available to carry out research.

There was an enthusiastic response from the students. The registration was limited and 30 students took part in this talk. This talk helped the students gain knowledge on research in the area of image processing in this technological



world. The interaction with the speaker also helped few students to get different project ideas.

Ms Sujatha M. Asst. professor, CSE thanked the Speaker and staff coordinators Dr Rachana P, Ms Soumya and all the participants. Dr Rachana P, Associate Professor, CSE Dept felicitated the speaker with a memento.

## Technical Talk on "Cryptography and its Applications"

"Cryptography and its Applications" organized by IEEE Student branch SJEC in association with Department of Computer Science and Engineering for the students of Computer Science and Engineering and Electronics and Communication Engineering of St. Joseph Engineering College on 29th October, 2018 at Bishop Aloysius Paul Hall from 2:00 PM to 5:00 PM.

Mr Aronstun Ralph D'Souza, student of third semester, CSE was the master of ceremony.

Mr Aronstun Ralph D'Souza welcomed speaker Dr M



R Arulalan, his student Mr Vibor and the gathering. He also introduced the speaker Dr M R Arulalan, Assistant Professor, NITK, Surathkal to the audience. Dr Sridevi Saralaya, Associate Professor & HOD of CSE Department florally welcomed the speaker with a baguette.

The speaker spoke about importance of maths in cryptography, different types of cryptographic attacks, working of different cryptographic algorithms

including public key cryptosystem.

There was an enthusiastic response from the students of CSE and E&C branches. The registration was limited

and 40 students took part in this talk. This talk helped the students gain knowledge on applications of cryptography in this technological world. The interaction with the speaker also helped few students to get different project ideas.



Mr Aronstun Ralph D'Souza, student of third semester, CSE thanked the Speaker, organizer of the talk Ms Sujatha M. and staff coordinators Dr Rachana P, Ms Soumya and all the participants. Dr Rachana P, Associate Professor, CSE Dept felicitated the speaker with a memento.

## ISTE - Chapter

### *Seminar by TIME*



higher education will help in securing a desired job where students will have the flexibility of choosing their work as well as better chances for career development. Later the presenter gave the details of all the entrance examination like GATE, CAT, GRE, CMAT etc and also the scheduling of these examination, the grading criteria, the preparations required and documentation required.

At the end he briefed about the services provided by



The ISTE chapter of Computer Science and Engineering department organized a talk on opportunities for higher education . It was conducted by T.I.M.E. for all the 6th semester computer science and engineering students on 30-Jan-2019 to give information about higher education opportunities and the different entrance examinations they can take up for it.

The presenter first gave a brief idea of the different paths an engineering student can take after the graduation like opting for placements or doing higher studies like MS, M tech and MBA. He gave an idea of how opting for

T.I.M.E. for students who enrol for their courses, such as 3 sets of detailed study materials, online resources and mock tests to assess the performance, training on interview, GD, WAT and 24 AIMCATs examination to give plenty of practice as well as an edge in entrance examinations.

### *Installation of Hadoop*

The ISTE SJEC Chapter of CSE department organized a session on "Installation of Hadoop" for the final year students on 25 April 2019 in the CSE webinar hall from 11:00 am to 1:00 pm. It was conducted by the faculty members Mr Shreenath Acharya, Ms Smitha V George and Ms Lavina D'Silva,. Around 60 students of the VIII semester computer science and engineering participated

in this session. The faculty first gave a brief idea of the hadoop ecosystem and then started with a hands on demonstration of hadoop installation on the laptops. The students were asked to carry their own laptops in order to follow the instructions and perform the installation hands on. After the installations the students executed a few hadoop commands.

## TIARA 2019

### Papyrus



Accompanying other pumped up events in the CSE department, students were set ablaze to showcase their presentation skills in a versatile manner. Yes, this is in context to the overwhelming event coined Papyrus. This event's cynosure was, delivering knowledge on recent technical topics they thrived on. The faculty coordinators were Ms. Smitha V George, Assistant Professor-CSE, and Ms. Aparna K, Assistant Professor-CSE. It commenced at sharp 11 AM in Academic block III, sixth floor, room number 3504. This event was compered by Ms. Divyanjalin A Soans. She initiated with a welcome speech and wished all the participants their streak of luck. Mr. Gerald H Fernandes, Assistant Professor-CSE, Mr. Shreenath Acharya, Assistant Professor-CSE, Ms. Sumangala N, In-charge HOD-Computer Applications, Mr. Gururaja S, Assistant Professor- Computer Applications, were the judges of the competition. There was a total of 28 teams that participated. Students from inter-colleges were also allowed to participate and put-forth their anonymous ideas. Ms. Dynita Pinto then briefed about the rubrics for the event. Since massive students showed tremendous interest in this event, they were split into two classrooms. The remainder were carry-forwarded in the neighbouring class room. Some of the prominent guidelines in order to participate in this event are mentioned below:

- The event was open to all branches.
- Registration details and college ID must be presented.
- Maximum two members in a team.
- The participants must select a relevant technical topic.
- Selected teams will be notified via Email.

- Once the paper is selected they will be required to prepare the power-points containing maximum of 15 slides.
- Papers should be submitted well in advance, in IEEE format.
- Participant's name, department and college should be mentioned clearly in the paper and power points.
- Judgement is based on the significance of the technical topic, paper format in IEEE only, slides, organization of the presentation, knowledge of the subject and a questionnaire round.
- Time duration: 7mins presentation and 2mins-questionnaire round.
- The first warning bell will be alarmed after 5mins of the presentation, followed by the final bell after 7mins.
- The participants must get 2-hard copies of their paper, which could be 4-5 pages.
- The participants need to submit the soft copy in prior, to the email id: rachanap@sjec.ac.in or ushad@sjec.ac.in for verification of the papers.





- The judge's decision was final.
- The two teams with the highest marks will be awarded.
- No registration fees.
- The last date for paper submission was 11th Mar 2019.

All the teams showed great enthusiasm and performed well. The winners were Ms. Deekshitha from SJEC and the second prize was bagged by Ms. Divya and Ms. Khateeja Rukshana from Srinivas School of Engineering. Mementos were given to all the judges and the faculty were felicitated by Dr. Sridevi Saralaya, HOD-CSE department. The student coordinators for the event were Ms. Deekshita and Ms. Christal Lobo from fourth year CSE department.

## Bazzinga

The event started with a total of 15 teams at 11:30 am in class 3503. The first round was "Tech Buzz" which was divided into 2 parts. Part 1 was a quiz round based on



general knowledge, latest movies, series, riddles, etc. Part 2 was based on logos and famous personalities. All the questions were displayed on the screen for a minute. The students had to write down the answers on the given sheet of paper. The students were asked to wait for a while till

the papers were corrected. At the end, the questions were displayed once again. A total of 5 teams got disqualified in this round.

Second round began at 12:15 am. In this round, "Oh My Bug", teams were asked to go around the campus, find some significant spot and take snaps of themselves with a creative pose.

They had to then send the pictures to one of the coordinators. There only given 30 minutes. All the students assembled back in the classroom at 12:45 am. Five teams were selected on the basis of the most creative pose and good photography.

Third round, Code Warriors, started at 2:00 pm. Here, one of the teammate was taken to a lab and was required to code a small and simple program using either C, Python or Java language. 2 sets of question papers were prepared. The other teammate was asked to take a chit which guided them where to go. No mobile phones were allowed. One volunteer was present at each of the spot to ensure nobody used their phones. Once the team member in lab executed the code correctly, he was given a riddle to hint him where his other teammate was. They were supposed to find their teammates and come back to 3503 classroom.

Everyone took part in the event enthusiastically and the volunteers and faculty members helped in the smooth coordination of the event.

The first winners were Nasil Saniah and Shravan Baliga from St Joseph Engineering college. They won a total of Rs 1500.

The second winners were Oliva Sharol Correa and S B Shubha from St Joseph Engineering college. They won a total of Rs 1000.

Ms Gayana from the department of Computer Science was called for the prize distribution ceremony.



## Pubg

Department of Computer Science and Engineering in association with Tiara-2019 organized Pubg which is a gaming event on 13th March 2019 in Academic Block III, 6th floor, Webinar Hall from 11:30 a.m. onwards.



A total of 54 teams participated in the event. The event was conducted by the student event coordinators, Crystal Fay Dsouza and Shreema Simran. Manjesh G and Errol D'Mello spearheaded the event. Pubg is a game where you start with nothing and have to scavenge and collect



weapons and equipment. The game is ultimately a battle to the last player standing, with 100 players on an 8\*8 Km Island. Each team comprised of 4 members who actively participated in this gaming event and in turn this event provided a platform for enhancing their skills. The participants had to get their own mobile for participation. The teams were divided into slots of 3 with each slot consisting of 25,15 and 14 teams respectively. Top 5 teams were selected from each slot and they competed in the finals to become the ultimate champion. The details of the event are as shown below: • Finally, only 15 teams made it into the final round • The event ended at 5 p.m. The first prize was bagged by Ajanth kotian, Chethan

Shetty,Shivaraj and rensou dsouza from 2 nd year, St. Joseph Engineering College and the second prize was won by Manjunath, Ashwin R S, Mazin and Muhammad Rumaiz from 3 rd year, St. Joseph Engineering College. The event concluded with the prize distribution where the winning team was handed over certificates and also a cash prize of Rs. 1500 and Rs. 1000 respectively.

## Adroit

The Mega event for the Department of Computer Science and Engineering for Tiara 2019 was conducted on 13.03.2019, day 1 of the fest. The event was conducted by the student event coordinators Elrica Costa and Jaanhvi



Hehar. A total of 64 participants took part in this event. The event began at 11 a.m. and consisted of 3 rounds.

The first round was conducted in Academic Block 3 in rooms 3602 and 3603. This round consisted of riddles, mysteries and logical reasoning problems that the



participants had to solve using their wits. The top 12 teams qualified for the next round.

Round 2 consisted of each team being divided into two sub teams. One sub team solved riddles to obtain clues and directed the other half of their team to corresponding locations based on the clues. This round took place all across the campus. The first 8 teams to complete this round qualified for the next round.



Runners Up

The final round of Adroit was conducted in the college football ground. It was divided into two sub rounds. The first sub round was an obstacle course that was created using tires, bricks and tables. One participant from each team had to navigate through this course blind folded while his team mates guided him through the course. 6 teams qualified for the 2nd sub round which was the deciding round for the event. The final round was a human X and O game where each team had to place their team members turn by turn in a 3 by 3 grid of 9 chairs. The round and event was won by Prasanna Kumar P., Manikanta, Abhishek Suresh and Hussain Salman from A.J Institute of Engineering and Technology and the runners up were Mohammed Yake Ruknaddin, Zuyufullah Manna and Siddique from Anjuman Institute of Technology and Management.

The event concluded with the prize distribution where the winning team and the runners up were handed certificates along with a cash prize of rupees 2500 and 1500 respectively by Ms. Sujatha M., Assistant Professor, Department of Computer Science.

### Trojan spartans

The event named TROJAN SPARTANS was held on second day of Tiara 2019 that is on 14th March 2019. The event



consisted of two rounds namely Mind Sweepers and Maverick Helpers. There were a total of 22 teams that registered for the event that began by 9:45am.

The first round Mind Sweepers was divided into two sub-rounds. The first sub-round consisted of quizzes from technical and non-technical fields that was conducted through audiovisual medium. The second sub-round was crosswords that were handed out on sheets to each team. The participants were eliminated based on the total score of the two sub-rounds with the top ten teams making it through to the second and final round. The final round was named Maverick Helpers.



This round began with teams having to debug programs, solve flowcharts and assemble jumbled code to find out a particular phrase in order to win. The fastest two teams were selected as winners. The first place was awarded to Anurag D Shetty and Glen Ignatius Lobo from 3rd year Computer Science Department.

The second prize was bagged by Nasil Saniah and Shravan Baliga K again from 3rd year Computer Science.

The prize and certificates were presented to the winners by Mr. Bola Sunil Kamath, Associate Professor at St. Joseph Engineering College. The event along with prize distribution concluded by 12pm, marking the end of an extremely successful event.

## TECHNOVA 2019

(A Final Year Project Exhibition cum Competition for academic year 2018-2019)

(A Final Year Project Exhibition cum Competition for academic year 2018-2019)

The Department of Computer Science and Engineering organized a project exhibition cum competition for the final year student projects under the banner "TECHNOVA 2019", on 20th May 2019. 34 teams consisting of 3- 4 members in each team participated in this event.

The panel of judges consisted of a team of external and internal judges. The three external judges were Mr Ashok Wilson D'Souza, Senior Business Intelligence Analyst, Atlantic Data Bureau Services Pvt Ltd, Mangaluru, Mr Alwyn Edison Mendonca, Asst. Professor, SIT, Valachil and Ms Archana Bhat, Research Scholar, IT Department, NITK< Surathkal. We also had a team of internal judges namely Dr Usha Divakarla (Associate Professor, CSE, SJEC), Dr Rachana P (Associate Professor, CSE, SJEC) and Ms Smitha V George (Asst Professor, CSE, SJEC).

Among the 34 teams who participated 6 teams were shortlisted for the final round of evaluation. The first prize was bagged by the project titled "Block Chain Based Voting System" by Mr. Raghavendra Bhat, Mr Prajwal Dcunha, Mr Joslin Dcunha and Mr Royden Rego under the guidance of Ms Supreetha (Assistant Professor, CSE, SJEC). The second prize was bagged by the project titled "Self Driving Car for the Handicapped" by Errol Vismith DMello, Akarsh DMello and Yuktha Raman under the guidance of Mr Shreenath Acharya (Assistant Professor, CSE, SJEC). The award for the most innovative project went to the project titled "Data Driven Approaches for Acquisition of Translation Lexica" by Ms Sahana Angadi, Ms Sandra Satish, Ms Suman Nayak and Ms Vaishnavi Naik under the guidance of Ms Evita Coelho (Assistant Professor, CSE, SJEC).

The event concluded with a Valedictory function at 1:00pm. A few Parents and the students of 1st year, 2nd year and 3rd year CSE also came to see the projects and had discussion with the final year students with respect to their queries related to the exhibited projects.



**First Prize Winners**  
**Title: Block Chain based Voting System**



**Second Prize Winners**  
**Title: Self Driving Car for the Handicapped**



**Innovative Project Prize Winners**  
**Title: Data Driven Approaches for Acquisition of Translation Lexica**



## TRAINING PROGRAMMES

Dr Rio D'Souza	CLHRD, Kadri	Relmagine- Human Resource Management
Dr Sridevi Saralaya	SJEC	Two day National workshop on Intellectual Property Rights(IPR)
	SJEC	Integra-cornea 2019 Workshop
	SJEC	Faculty Development Program on "Big Data" at St Joseph Engineering College, Mangalore.
	NITK, Surathkal	2 days seminar on "New Frontiers in Cloud and Fog Computing for Big Data and Internet-of-Things(IoT) Applications
	SJEC	Five Day Faculty Development Programme on Machine Learning
	SJEC	Integra-2018, Three Days Faculty Development Program on Course Design & Management
Dr Kavitha Mahesh	SJEC	Faculty Development Refresher Programme on "New Age Skills for Excellence in Teaching"
	SJEC	Faculty Development Programme on "Big Data"
	SJEC	Five Day Faculty Development Programme on Machine Learning
	SJEC	Integra-2018, Three Days Faculty Development Program on Course Design & Management
Dr Usha Divakarla	SJEC	Workshop on "New Age Skills for Excellence in Teaching"
	SJEC	Integra-cornea 2019 Workshop
	NITK, Surathkal	2 days seminar on "New Frontiers in Cloud and Fog Computing for Big Data and Internet-of-Things(IoT) Applications
	SJEC	FDP on Machine learning,SJEC
Dr Rachana P	SJEC	Integra-cornea 2019 Workshop
	SJEC	Faculty Development Program on "Big Data" at St Joseph Engineering College, Mangalore.
	SJEC	Faculty Development Program on "Recent Trends in Medical Image Processing using Wavelet Transforms" at St Joseph Engineering College, Mangalore.
	SJEC	Workshop on "Basics of MATLAB and its application in Engineering Mathematics" at St Joseph Engineering College, Mangalore
	SJEC	FDP on Machine learning,SJEC
	SJEC	Integra-2018, Three Days Faculty Development Program on Course Design & Management

Mr Sunil Kamath	SJEC	"Feel Teacher"-Learning and Development Intervention
	SJEC	Integra-2018, Three Days Faculty Development Program on Course Design & Management
Mr Shreenath Acharya	SJEC	Two day National workshop on Intellectual Property Rights(IPR)
	BNMIT, Bengaluru	New Model Curriculum for PG Courses CBCS Detailed Syllabus (2018-19) as per Outcome-Based Education format of AICTE including Course Outcomes and Bloom's Taxonomy
	SJEC	Integra-2018, Three Days FDP on "Course Design & Management"
	SJEC	"Feel Teacher"-Learning and Development Intervention
Ms Sunitha G	SJEC	Feel Teacher' Learning and Development Intervention
	SJEC	FDP on 'Project Based Learning Using Matlab and Simulink'
	SDMIT, Ujire	Two Day FDP on 'VTU Thesis and Research Paper Writing using LaTeX'
	SJEC	Five Day FDP on Machine Learning
	SJEC	Integra-2018, Three Days FDP on "Course Design & Management"
	SJEC	Information Discovery - Tips, Tools and Technologies
Ms Smitha V George	SJEC	Faculty Development Program on "Big Data" at St Joseph Engineering College, Mangalore.
	SJEC	Five Day FDP on Machine Learning
	SJEC	"Feel Teacher"-Learning and Development Intervention
	SJEC	Integra-2018, Three Days Faculty Development Program on Course Design & Management
Ms Supriya Salian	SJEC	Workshop on "Basics of MATLAB and its Application in Engineering Mathematics"
	SJEC	Integra-2018, FDP on "Course Design & Management"
	SJEC	"Feel Teacher"-Learning and Development Intervention
Ms Gayana M N	SJEC	FDP on "learning through effective assessment, technology for Engineering Education, Writing Good Research papers"
	SJEC	FDP on 'Project Based Learning Using Matlab and Simulink'
	SJEC	Integra-2018, FDP on "Course Design & Management"
	SJEC	Workshop on Information Discovery - Tips, Tools and Technologies
	SJEC	"Feel Teacher"-Learning and Development Intervention
Ms Sujatha M	SJEC	Faculty Development Program on "New Age Skills for Excellence in Teaching"
	SJEC	Faculty Development Program on "Big Data" at St Joseph Engineering College, Mangalore.
	SJEC	Faculty Development Program on "Recent Trends in Medical Image Processing using Wavelet Transforms" at St Joseph Engineering College, Mangalore.
	SJEC	Workshop on "Basics of MATLAB and its application in Engineering Mathematics" at St Joseph Engineering College, Mangalore.
	SJEC	Five Day FDP on Machine Learning

Ms Supreetha R	CLHRD, Kadri	Relmagine- Human Resource Management
	SJEC	Five Day FDP on Machine Learning
	SJEC	Integra-2018, FDP on "Course Design & Management"
	SJEC	"Feel Teacher"-Learning and Development Intervention
Ms Aparna K	SDIT	FDP on Web Technology and its applications
	SJEC	Integra 2018-Course Design management
	SJEC	Five Day FDP on Machine Learning
Ms Renuka Tantry	CLHRD, Kadri	Relmagine- Human Resource Management
	SJEC	Integra 2018-Course Design management
	SJEC	Feel Teacher Learning and Development Intervention from
Ms Vijetha U	SDIT	FDP on Web Technology and its applications
	SJEC	MDP on Agile Leadership in Changing Business Environment
	SJEC	Integra 2018-Course Design management
	SJEC	Feel Teacher Learning and Development Intervention from
Mr Prathviraj N	SJEC	workshop on IPR
Ms Evita Coelho	SJEC	"Feel Teacher" Learning and Development Intervention
	SJEC	Five Day FDP on Machine Learning
	SJEC	Integra-2018, Three Days Faculty Development Program on Course Design & Management
Mr Gerald Fernandes	SJEC	"Feel Teacher"-Learning and Development Intervention
	SJEC	Integra-2018, Three Days Faculty Development Program on Course Design & Management
	SJEC	Agile Methodologies and Scrum
Ms Lavina Jean D'Silva	SJEC	Two Day National Workshop on Intellectual Property Rights
	Bangalore	Next Gen ICT Skill Conclave 2019 organised by Trident ICT Academy
	SJEC	Five Day FDP on Machine Learning
	SJEC	"Feel Teacher"-Learning and Development Intervention
Ms Anusha M M	SJEC	Two Day National Workshop on Intellectual Property Rights
	SJEC	Five Day FDP on Machine Learning
	SJEC	Integra-2018, Three Days Faculty Development Program on Course Design & Management
	SJEC	"Feel Teacher" Learning and Development Intervention
Ms Pramila Madhava	SJEC	Faculty Development Program on "Big Data" at St Joseph Engineering College, Mangalore.
	SJEC	Five Day FDP on Machine Learning
Ms Sona Mundody	SJEC	Faculty Development Program on "New Age Skills for Excellence in Teaching"
	VVCE, Mysore	Faculty Development Program on "Cryptography, Network Security and Cyber laws"
	SJEC	FDP on Machine learning,SJEC
	SJEC	Integra-2018, Three Days FDP on "Course Design & Management"
	Cambridge Institute of Technology , Bangalore	Six days FDP on Machine Learning

Ms Chaithra	CLHRD, Kadri	Relmagine- Human Resource Management
	SJEC	Five days FDP on Machine Learning
	Cambridge ,Bangalore	Six days FDP on Machine Learning
Ms Nisha J Roche	Bangalore	Next Gen ICT Skill Conclave 2019 organised by Trident ICT Academy
	CLHRD, Kadri	Relmagine- Human Resource Management
	Bangalore	one day Conference-IoTNEXT organized by IESA and TIE held at Bengaluru.
Ms Eden Sequeira	CLHRD, Kadri	Relmagine- Human Resource Management
	SJEC	Workshop on Machine Learning
	SJEC	Integra-2018
Ms Soumya	SJEC	Workshop on New Age Skills for Excellence in Teaching
	SJEC	Integra-cornea 2019 Workshop
	SJEC	Workshop on Project based learning using matlab and simulink
	SJEC	Workshop on Machine Learning
	SJEC	Integra-2018
Ms Babitha	SJEC	Workshop on New Age Skills for Excellence in Teaching
	SJEC	Cornea and Integra-2019
	SJEC	Workshop on Project based learning using matlab and simulink
	SJEC	Workshop on Machine Learning
	SJEC	Integra-2018
Ms Archana Rao	SJEC	Workshop on New Age Skills for Excellence in Teaching
	SJEC	Workshop on Project based learning using matlab and simulink
	SJEC	Workshop on Machine Learning
	SJEC	Integra-2018

## ACHIEVEMENTS

### CONFERENCE

1. Mr Prathviraj N. presented paper "Hybrid Teaching Model to Persuade Different Dimensions of Felder-Silverman Learning Style Model" in International conference on Remote Engineering and Virtual Instrumentation at BMSCE Bengaluru
2. Dr Usha Divakarla presented paper "Logistic Regression based DFS for Trip Advising Software(ASCEND)" in CONFLUENCE 2019 at Amity University, Noida
3. Dr Usha Divakarla presented paper "Role of Activation functions and Order of Input Sequences in Question-Answering" in ICDMAI 2019 at Malaysia,[SPRINGER]
4. Mr Prathviraj N presented paper "Rough Set Based Analysis Multilayer Stack Parameter on QoS of MANET" in International Conference on Computational Intelligence and Data Engineering at VIGNYAN University Guntur.

5. Ms SUNITHA GURUPRASAD presented paper "Evolutionary approach for detecting intrusions using modified mutation operation" in International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC-2018)
6. Dr Kavitha K Mahesh presented paper "Exploring the Relevance of Bilingual Morph-units in Automatic Induction of Translation Templates Advances in Artificial Intelligence - IBERAMIA 2018, 16th Ibero-American Conference on AI, Trujillo, Peru, Lecture Notes in Computer Science DOI: 10.1007/978-3-030-03928-8\_34
7. SHREENATH ACHARYA presented paper "A Comparative Study on Homomorphic Encryption Schemes in Cloud Computing" IEEE International Conference on Recent Trends in Electronics, Information & Communication Technology (RTEICT-2018)

## JOURNALS

1. Dr Rio D'Souza and Dr Sridevi Saralaya published paper "A Rule-Based Approach for Multi-Perspective Adaptation of Service-Based Systems" in Int. J. of Electronic Governance.
2. Dr Rio D'Souza and Dr Sridevi Saralaya published paper "Compliance Management in Business Processes" in Digital Business: Business Algorithms, Cloud Computing and Data Engineering.
3. Dr Rachana P published paper "Efficient Content Based Image Retrieval technique" in International Journal Of Research In Electronics And Computer Engineering, Vol. 6 Issue 4, 2018, Issn: 2393-9028 (Print) | Issn: 2348-2281 (Online)
4. Mr Shreenath Acharya published paper "Energy saving VM placement in cloud" in International Journal of Modern Education and Computer Science (IJMECS), DOI: 10.5815/ijmecs.2018.12.04

## RESEARCH GRANT

**Dr Kavitha Mahesh** received research grant of Rs 5 Lakhs from Vision Group on Science and Technology (VGST), Karnataka Science and Technology Promotion Society (KSTePS), Department of Information Technology, Bio Technology and Science & Technology, Karnataka, India, to carry out project "Hybrid Approaches for Acquisition and Augmentation of Translation Tables for Indian Languages"



## PHD AWARDED

**Dr Rachana P** was awarded with PhD degree from Jain University for her research work titled "A Stride towards developing a CBIR system based on image annotation and multi modal feature set" under the guidance of Dr H N Suresh.

## PROJECT EXHIBITION

Sl no.	Student name	Event	Organized By	Date
1	Ranjith Kumar B	KSCST- Student Project Programme : 41st Series	BIET, Davangere	10th and 11th August 2018
2	Md. Awsaf Ali			
3	S Dhanashree			
4	Prithvi V			

**INTER-INSTITUTE PAPER PRESENTATIONS (2018-19)**

Sl.no	Student Name	Event Name	Organized by	Date
1.	Mh. Hakeeb Javid	Aakriti-2019	CEC Mangaluru	2nd Mar 2019
2.	Aldrin Pereira			
3.	Aishwarya Shetty	AJIET AAKAR-2k19	AJIET-Mangaluru	10th Mar 2019
4.	Kushi Salian			
5.	Aishwarya Shetty	ENVISION-2K19	SIT-Mangaluru	12th Mar 2019

**INTER-INSTITUTE PAPER PRESENTATIONS (2018-19)**

Sl.no	Student Name	Event Name	Organized by	Date
1.	Manoj Krishna	Techcrunch-2018	AIET-Moodabidri	25th Sep 2018
2.	Anisha Antony D'Souza			
3.	Poojitha			
4.	Prajna			
5.	Pragathi Beedu			
6.	Pramatha			
7.	Nikitha S.			
8.	Vibha Menon			
9.	Manjesh Guluwadi	Ideaathon-2018	SJEC-Mangaluru	13th Oct 2018
10.	Neha Shetty			
11.	Aishwarya Udaya			
12.	Satyam	BAJA SAEINDIA-2019	SAEINDIA	27th Jan 2019
13.	Elrica Costa	Incridea-2019	NMAMIT-Nitte	13th Feb 2019
14.	Aronstun D'Souza	Aurora-2019	SJEC- Mangaluru	21st Feb 2019
15.	Mh. Hakeeb Javid	Coder's Avenue Aakriti-2019	CEC Mangaluru	2nd Mar 2019
16.	Aishwarya Shetty			
17.	Kushi Salian			
18.	Aldrin Pereira			
19.	Aishwarya Shetty	Bug hunt Aakriti-2019	CEC Mangaluru	2nd Mar 2019
20.	Kushi Salian			
21.	Shreyan			
22.	Panchami Nayak	Hackathon- Aakriti-2019	CEC Mangaluru	2nd Mar 2019
23.	Satyam Pandey			
24.	Shashank Reddy			
25.	Gowda Karthik			
26.	Sushan Suresh			
27.	Deepesh Bhat	Can u C AJIET AAKAR-2k19	AJIET-Mangaluru	10th Mar 2019
28.	Aston D'Souza			
29.	Ivor D'Souza	Coding, Web designing ENVISION-2K19	SIT-Mangaluru	12th Mar 2019
30.	Joysil Saldanha			
31.	Kushi Salian			

## ACCADEMIC TOPPERS for Odd Semester 2018-19

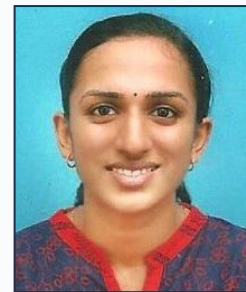
### IV Year BE-CSE



Suman R Nayak



Raghavendra Bhat S



Vibha Menon

### III Year BE-CSE



Crystal D'Souza

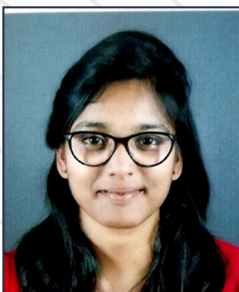


Naveen S

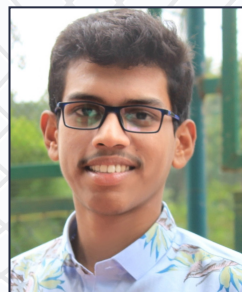


Sthuthi S

### II Year BE-CSE



Panchami Dilip Nayak



G Sunil



Hazel Shefali John

## INDUSTRY INTERNSHIPS

Sl no	Participating students	Details of the company	Training Schedule
1	Puneetha K R	ExpertsHub, Bengaluru	July 24th to 31st 2018
2	Elrica Costa	ExpertsHub, Bengaluru	July 16th to 23rd 2018
3	Jaahvi Hehar	ExpertsHub, Bengaluru	July 16th to 23rd 2018
4	Naveen S Pai	ExpertsHub, Bengaluru	July 24th to 31st 2018
5	H G Deeksha	Trinix Technologies Pvt. Ltd., Mangalore	4 weeks (July/ August)
6	Keerti	Trinix Technologies Pvt. Ltd., Mangalore	4 weeks (July/ August)
7	Kripashree	Zephyr Technologies, Mangalore	January 12th to February 12th 2019
8	Andrea Fernandes	Zephyr Technologies, Mangalore	January 12th to February 12th 2019
9	Bryan Calderia	ExpertsHub, Bengaluru	January 16th to 23rd 2019

## PLACEMENTS

S. No	NAME	Company Placed
1	Abhinandan Ghosh	Mphasis
		TCS
2	Abreo Bryan Peter	IBM
		L&T Infotech
3	AdlineJovita Dsouza	L&T Infotech
		VMware
4	Akarsha	Infosys
5	AlfridaMelishaFerrao	24/7
		IBM
6	Alston D Souza	ITC Infotech
		TCS
7	AmulyaKini	HSBC
		ITC Infotech
8	Ananya S Rai	Mphasis
		Wipro
9	Ankitha H Kamath	ITC Infotech
		TCS
10	Anvitha Ks	Wipro
		24/7
11	Arun S Patil	IBM
		Amazon
12	Asha B	Kreatio Software
		Mindtree
13	Asmitha Jolin D'Souza	SLK Software
		TCS
14	Athul Vittal Prabhu G	Wipro
		L&T Infotech

S. No	NAME	Company Placed
14	Athul Vittal Prabhu G	24/7
		Amazon
15	Atton Lawrence Rasquinha	Infosys
		Mphasis
16	Calvin Clint Dsouza	TCS
17	Carlton Anthony Rodrigues	Infosys
18	D K Trishala	QSpider
19	Daryl Saldanha	24/7
		IBM
20	Deekshitha	QSpider
		ITC Infotech
21	DeepaklalSharma.G	24/7
		Amazon
22	Divyanjalin Akanksha Soans	L&T Infotech
23	Dynita Jasmine Pinto	L&T Infotech
24	Errol Vismith Dmello	L&T Infotech
		TCS
25	FathimaNafha G I	Wipro
		L&T Infotech
26	Fiona Jovita Saldanha	HSBC, TCS, Wipro
		ITC Infotech
27	GreshalShalmaCutinha	ITC Infotech
28	Hasmitha G	Wipro
		24/7
29	Janet Noronha	Wipro



S. No	NAME	Company Placed
30	Joslin AnisethD'Cunha	ITC Infotech
		SAP
		TCS
31	Jyothy Maria Miranda	ITC Infotech
		TCS
32	M Vibha Menon	Infosys
		ITC Infotech
		Wipro
33	Manali K Bhanushali	L&T Infotech
34	ManjeshGuluwadi	L&T Infotech, Vmware
35	Mohammed Ishtiyak	24/7
36	Mohammed Moshin	24/7
37	Naren Bhandary	Novigo solutions
		TCS
		VMware
38	Nelson Pinto	Infosys
		Mphasis
39	Nidhi S Taggarse	Infosys
40	Niha .P	Infosys
		ITC Infotech
		Wipro
41	Nihal Palled	IBM
42	Nihal Palled	Kreatio
43	NikithaKini	ITC Infotech
44	Nikitha S	63.58
		SAP
45	Pallavi B P	L&T Infotech
46	Pannaga Bhushana T S	Robosoft Technologies
47	Poojari Sachin Shridar	L&T Infotech
		Wipro
48	Poojitha.R	L&T Infotech
49	Pradyumn Shenoy	Amazon
50	Pragathi S Beedu	TCS
51	Prajna B	L&T Infotech
		Wipro
52	Prajwal Perciwal Antony D'Cunha	L&T Infotech
		TCS
53	Pramatha	L&T Infotech
		TCS
54	Praneetha P Anchan	ITC Infotech
55	Prashantha	24/7
		Precision IT
56	Pratibha Mohandas	HSBC
		Mindtree
		TCS

S. No	NAME	Company Placed
57	Preston Russel Sequeira	L&T Infotech
58	PriyaRanitaCresta	IBM
59	Priyadarshini	Infosys
60	Rachel Sharon Cutinha	Infosys
61	Raghavendra Bhat S	Wipro
		ITC Infotech
		TCS
62	Reuben Joshua Siqueira	Decathlon, Vmware
63	Rigel Glen Rego	ITC Infotech
		TCS
64	Rochelle Hannah	ITC Infotech
		TCS
65	Royden Vinuth Rego	ITC Infotech
		TCS
66	Royston Lasrado	Amazon
67	Sabitha Rachel Nazareth	Wipro
68	Sahana M Angadi	Amazon
69	SanchiaDenzil	Decathlon
70	Sasha Benita Rodrigues	Infosys
71	Shalini R	Novigo solutions
		TCS
72	Shreya RavindraKshathriya	ITC Infotech
		VMware
73	Siddhartha N	Novigo solutions
		TCS
74	Sonia	Infosys
		Sunrise Biztech
75	Sourabh R Agari	Amazon
76	Suman R Nayak	ITC Infotech
		TCS
77	Suraksha NayakKapadi	24/7
		Infosys
78	Sushma P Shetty	24/7
		IBM
79	Swathi A Shetty	Accord
		Infosys
80	Swathi S Karanth	Mindtree
		SLK Software
		TCS
81	Tejas D	Global Esoftys
82	Vaishnavi N Naik	ITC Infotech
		TCS
83	VandithaDesmenRego	L&T Infotech
84	Yuktha Raman G V	L&T Infotech
		Wipro

# SIGNOUT - 2019

The Department of Computer Science along with the students of 3rd year organized farewell ceremony SignOut-2019 for the outgoing students of 2015-2019 batch on 11-05-2019 at Bethania hall from 1:50PM-4:50PM. The program began with a prayer song. The Gathering was welcomed by Mr Nigel D'Costa from 3rdyear.

Dr Rio D'souza Principal, Dr Sridevi Saralaya HOD-CSE, Dr Kavitha Mahesh Associate Professor, Mr Sunil Kamath Associate Professor and Ms Supreetha R Staff Coordinator-Signout were present on the dais.

Assistant Professor Ms Pramila M raised the toast on behalf of the department. On behalf of the students of 3rdyear, Ms Shreema Simran raised the toast, which was later replied to by Mr Preston Russel Sequeira, Mr Manjesh Guluwadi and Ms Daryl Clare Saldanha from the 4thyear.

Students who cleared TOEFL and GATE exams were felicitated along with the students who scored full marks in the semester examinations during the program.

The mementos were distributed to the outgoing students from the Department of Computer Science. Ms Crystal Fay D'Souza took charge as the Master of Ceremony. Vote of thanks was proposed by Ms Nasil Saniah of 3rd year. The formal function ended with the College Anthem.

The informal function began with a video that reminded the 4th year students about the memories they made in the last 4 years. The informal function was mastered by Ms Shreenidhi Shetty and Ms Akshatha A from 3rdyear. Various games were conducted for the outgoing students. The students of 3rd and 4th year entertained the audience with various dance and song performances. Meanwhile refreshments were served.



# Alumni Message



Hi everyone, I am Deeksha Alva, an alumnus of SJEC, I graduated in 2018 from the department of CSE. Currently, I am working as a software developer at Mindtree Ltd. since 2 years. I am grateful to have received this opportunity through the placement department at SJEC. The days spent at SJEC were the most happening days of my life. Here I could engage in various activities apart from academics, and that is the real beauty of my college where one need not compromise with the extracurricular activities to do better in academics, both were equally balanced. We celebrated fresher's day, tech fest, tech nite, hostel day, Milan, and also sports day (here my class stood as champions always). Many such events made our college life more enthusiastic and exciting.

I am grateful to the department of CSE and its faculty for giving me adequate opportunities to showcase my talents. I always loved coordinating and organizing events and the department gave me the opportunity to be the president of CIPHER, the department association which enabled me to emerge as a leader, this has helped me even today at my workplace. The socializing skills that I possess today are a result of the support and encouragement that I received from the faculty of the CSE department. Overall I would like to mention that they made sure that the maximum potential in me is brought out. As a result, today I can project myself as a better individual in society. I am grateful for all the moral support that I received during my difficult times, thank you for mentoring throughout.

I would like to tell my juniors that you are in safe hands and you can emerge as great individuals at SJEC.



# ST JOSEPH ENGINEERING COLLEGE

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